ALLEN & HEATH

GL2000

MIXING CONSOLE

SYS-LINK
EXPANDER OPTION

This option connects a GL2000 console as a channel expander to a second console with just one or two interconnecting cables.

Kit GL2000-SL1 = SINGLE

Single option to install SYS-LINK to one GL2000 console to allow interconnection to a second console already fitted with SYS-LINK.

Kit GL2000-SL2 = DUAL (2x GL2000-SL1)

Dual option to install SYS-LINK to two GL2000 consoles.

Interconnecting cables not supplied.

For information on using SYS-LINK please refer to APPLICATIONS NOTE AP2645

FITTING INSTRUCTIONS

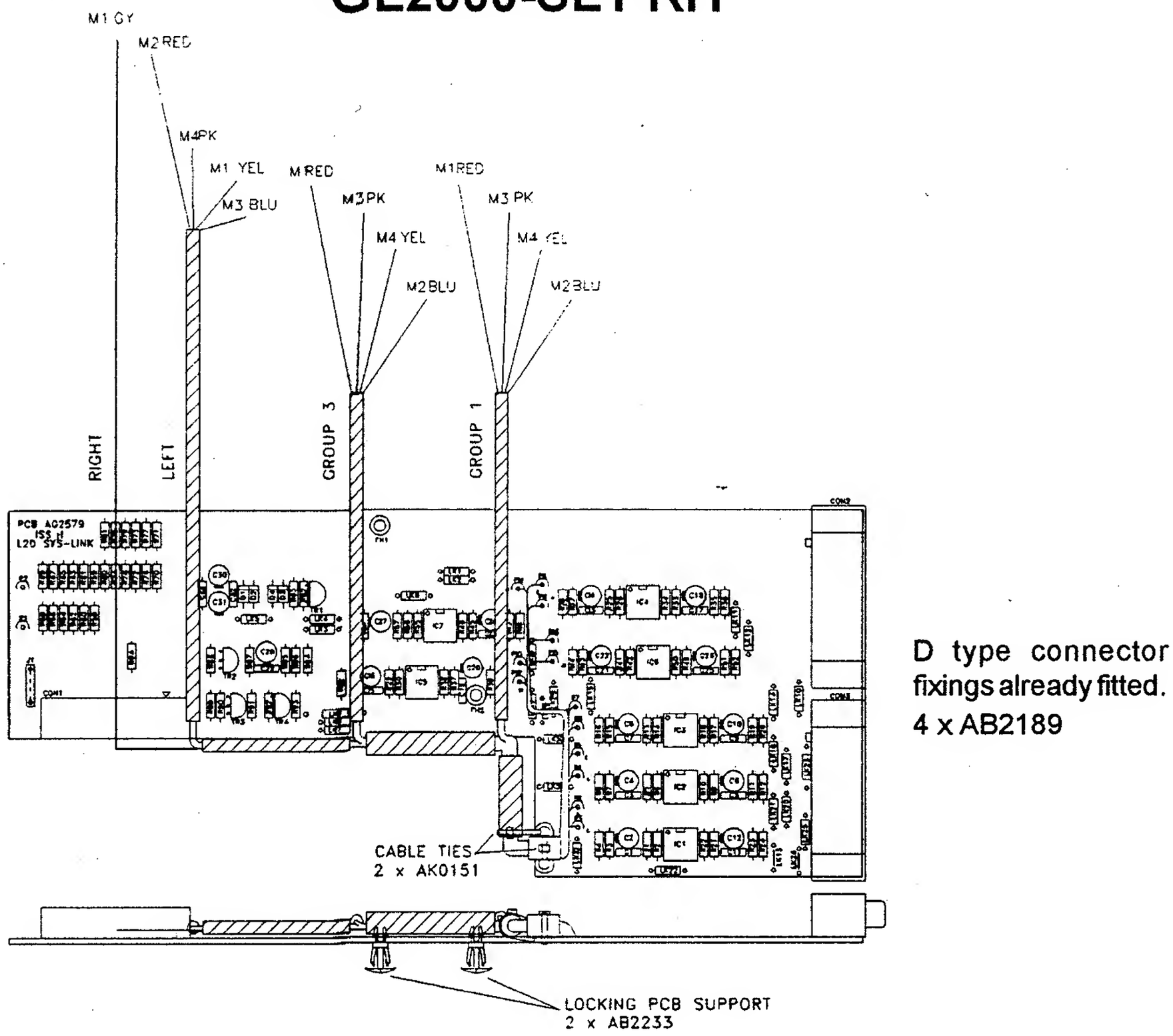
Publication AP2644

Issue 1 May 96

FITTING THE GL2000 SYS-LINK EXPANDER OPTION

❶ CHECK THE CONTENTS :

GL2000-SL1 KIT



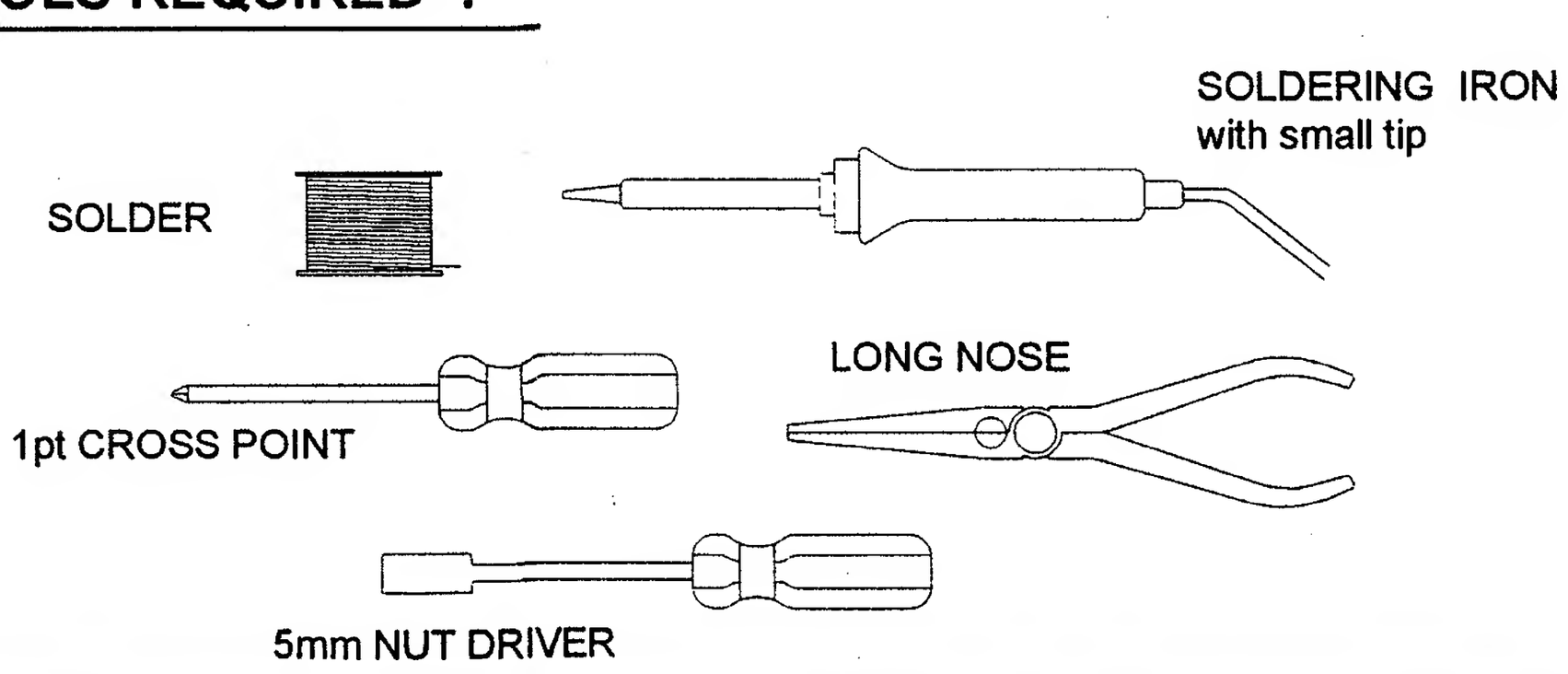
D type connector fixings already fitted.
4 x AB2189

fig. 1

Contents:

1x SYS-LINK circuit board assembly with interconnecting harness and mountings already fitted.
1x SYS-LINK Fitting Instructions (AP2644)
1x SYS-LINK Application notes (AP2645)

❷ TOOLS REQUIRED :



❸ PRELIMINARY:

To fit the SYS-LINK option it is not necessary to remove any of the circuit board assemblies as access to the SYS-LINK solder pads can be made with the circuit boards in place.

❹ REMOVE THE CONSOLE BASE :

Before inverting the console to remove the base, remove the two screws next to the end stereo input channel on the console front panel. Then invert the console and remove the base. Refer to fig. 6.

❺ REMOVE THE POWER SUPPLY :

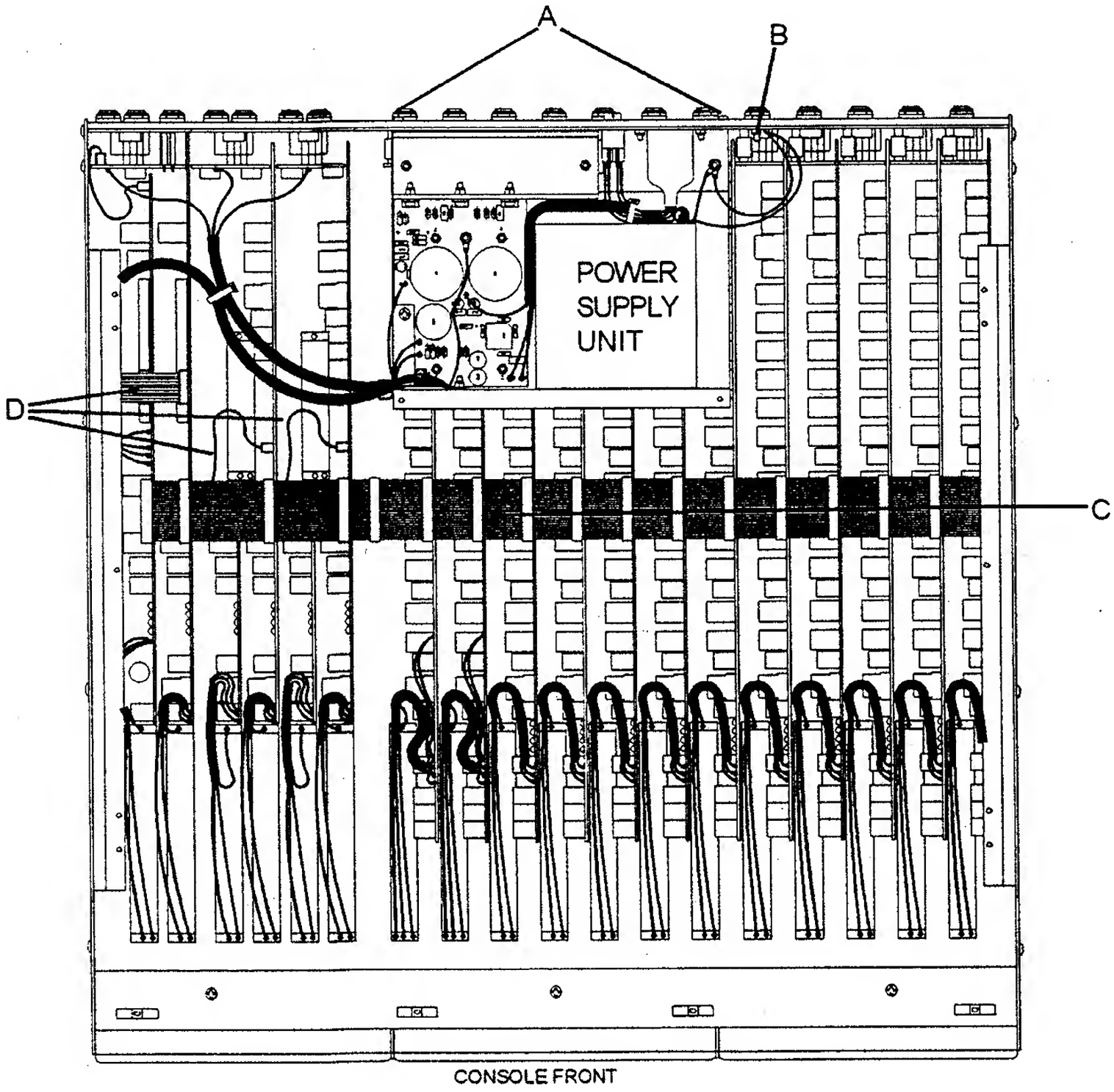
Refering to fig. 2, unscrew the two power supply sub chassis mounting screws (A) in the console rear panel. Disconnect the chassis earth terminal (B) and place the power supply outside the console chassis. Take care not stretch the wires connected to the console.

❻ REMOVE THE BLANKING PLATE :

The SYS-LINK blanking plate is located on the rear panel. Unscrew the retaining screws and remove the blanking plate.

❼ DISCONNECTING THE HARNESS ASSEMBLIES:

Disconnect the MAIN HARNESS (C) plugged into the connectors mounted along the edge of the circuit boards. Disconnect the flexible flat cables (D) plugged into the GROUP & LEFT/RIGHT circuit boards.

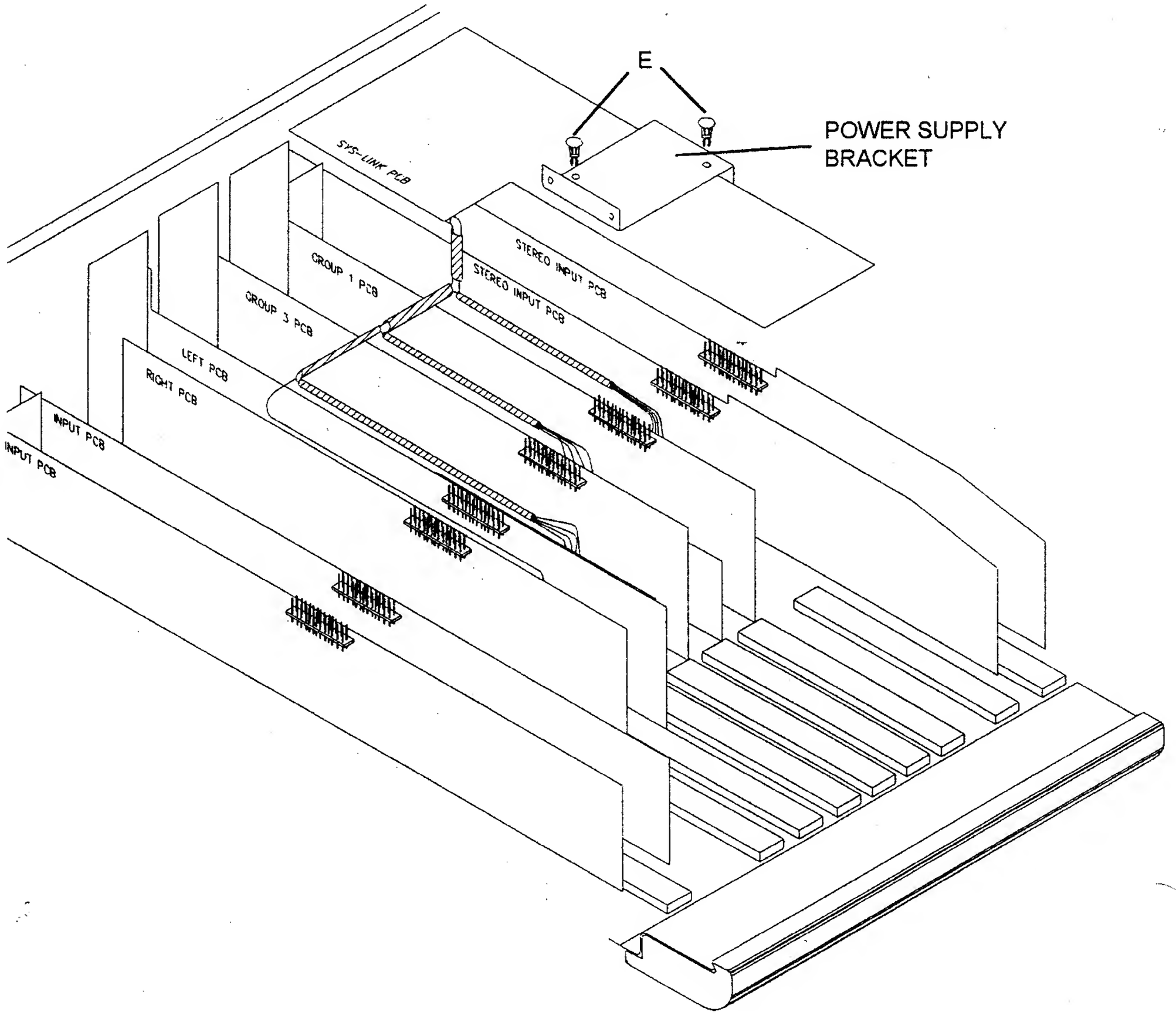


GL2000 inverted with the base cover removed.

fig. 2

❽ POSITIONING THE SYS-LINK ASSEMBLY:

Remove the power supply bracket from the power supply sub chassis by unscrewing the two screws next to the power supply circuit board. Fit the bracket to the SYS-LINK circuit board assembly with the 2 nylon snap in pillars (E) as shown in fig 3. Place the SYS-LINK and bracket assembly in the console as shown ready for soldering the wires.



GL2000 with power supply bracket fitted to SYS-LINK assembly

fig. 3

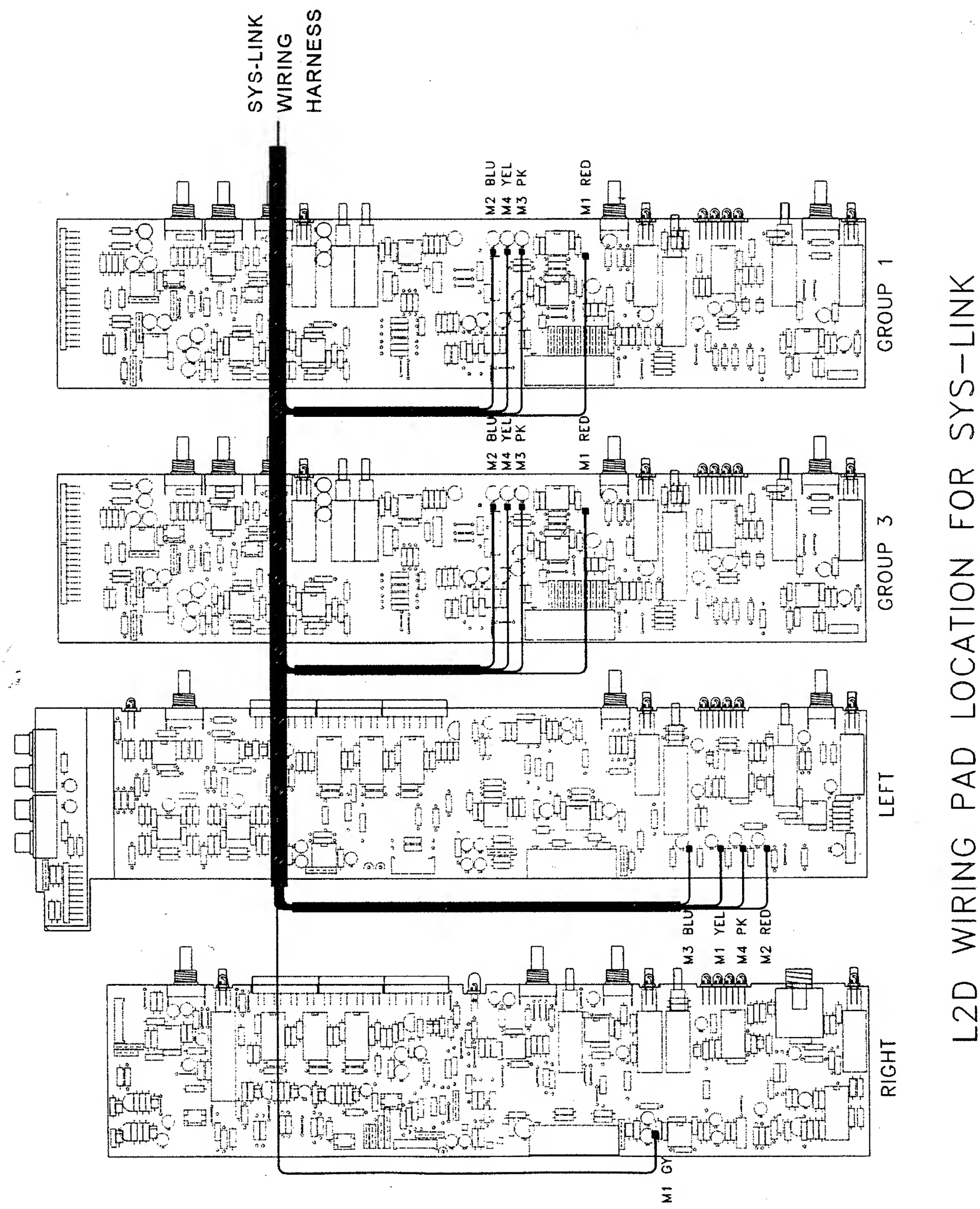
❾ SOLDERING THE SYS-LINK HARNESS ASSEMBLY:

Refering to fig. 4, prepare the solder pads on the circuit boards with new solder to ease the soldering of the SYS-LINK wires.

Note, the wires are soldered to the trackside of the circuit boards and not the component side.

It is recommended that the wires in the SYS-LINK harness are soldered to each circuit board in the following order:

GROUP 3 then GROUP 1 then LEFT and then finally the RIGHT circuit board assembly.

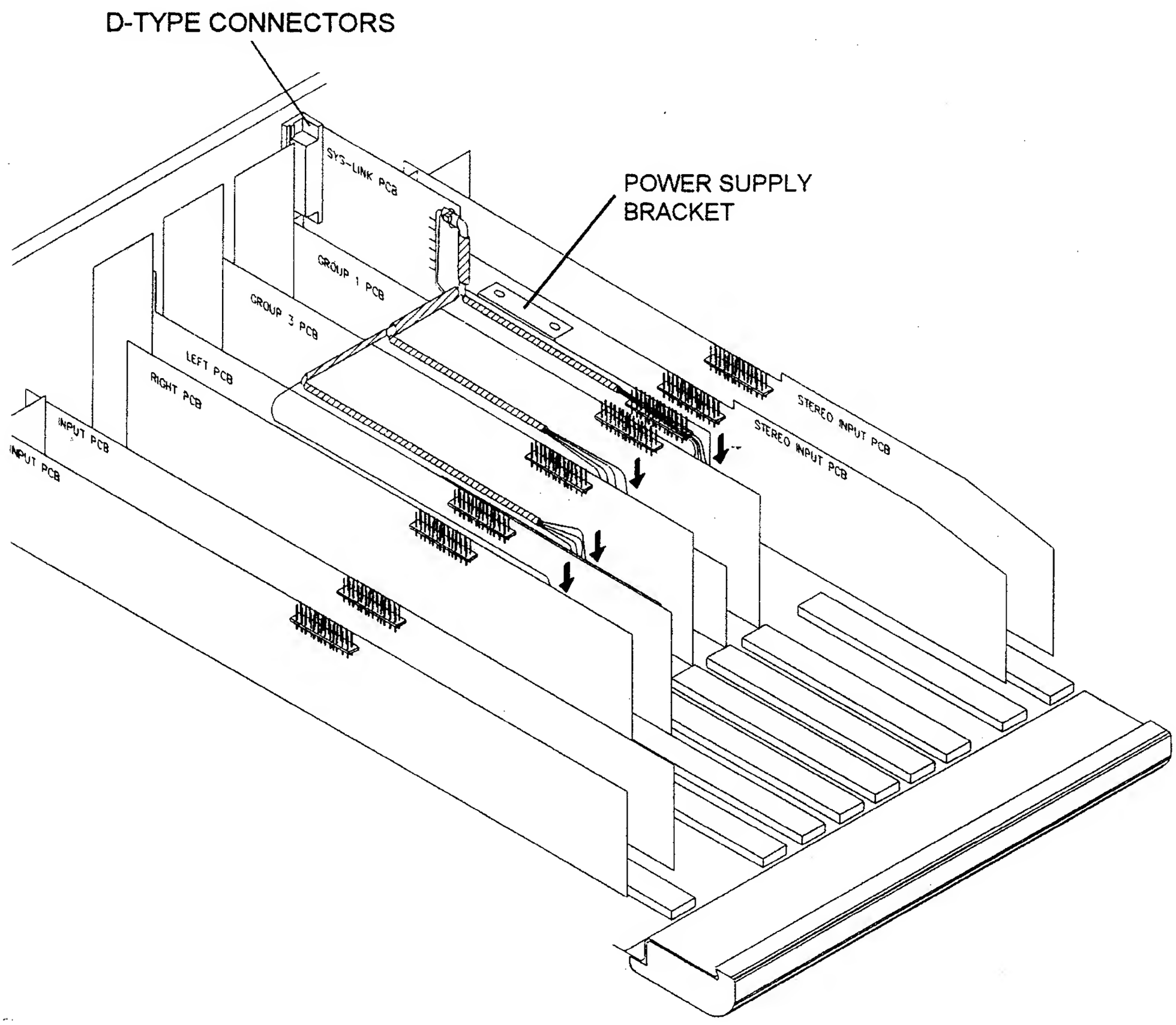


GL2000 SYS-LINK wiring points.

fig. 4

⑩ FITTING THE SYS-LINK ASSEMBLY :

When all the SYS-LINK wires have been soldered, remove the 4 screw fixings from the two D type connectors and manoeuvre the SYS-LINK circuit board and power supply bracket assembly into the console chassis as shown in fig. 5. Mount the D type connectors onto the rear panel with the 4 fixings.



SYS-LINK and power supply bracket fitted into GL2000 console.

fig. 5

⑪ REFIT THE POWER SUPPLY UNIT :

Refering to fig. 2, re-fit the power supply sub chassis into the console chassis as in ❺.

DO NOT FORGET TO FIT THE CHASSIS EARTH TERMINAL! (B)

⑫ REFIT THE POWER SUPPLY BRACKET :

Carefully stand the console on its rear panel and re-fit the two countersink front panel power supply bracket screws next to the end stereo input channel. **Support the console during this process.**

Place the console on its control surface and fit the two power supply sub chassis screws next to the power supply circuit board.

⓭ REFIT THE HARNESSES :

Refering to fig. 2, re-fit the MAIN HARNESS (C) onto the circuit boards. Check the harness is correctly aligned onto the circuit board connectors with pin 1 aligned with the red stripe of the ribbon harness. Reconnect the three flexible flat cables (D) to the GROUP and LEFT/RIGHT circuit board assemblies.

⓮ REFIT THE BASE :

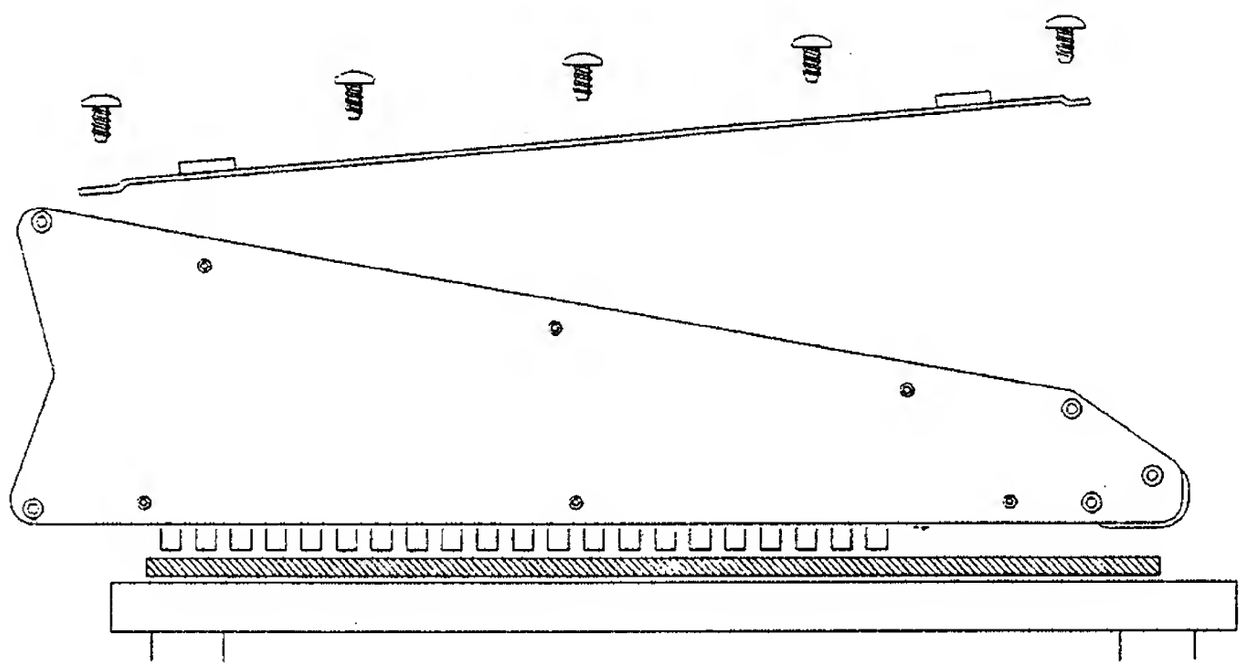


fig. 6

Refit the base. Locate the two screws for the power supply bracket before fitting the other screws.

⓯ PLUG ON THE INTERCONNECTING CABLES:

SYS-LINK connectors are 25way D-type female. Use 25way D-type male to male connector cables. Connect pin one to pin one on all connectors. Connect shield (screen) to 0V. Standard cables are available from electronic suppliers or computer shops. It is advised that the cable is a screened type less than 10 metres. Use professional quality locking connectors.

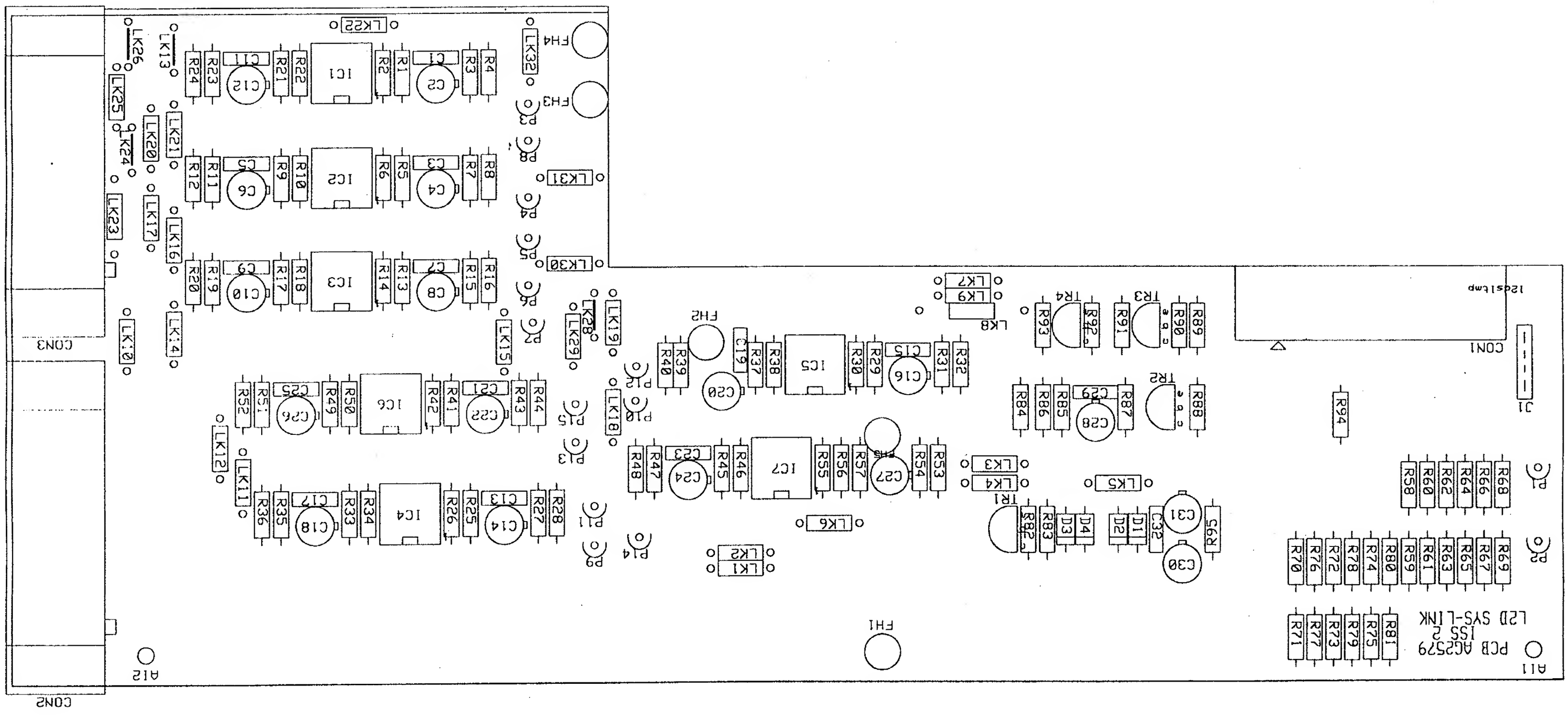
When connecting to equipment other than the GL Series link all unused audio inputs to 0V earth at the SYS-LINK input.

⓰ TEST THE SYSTEM:

Test all SYS-LINK inputs and outputs for correct signal level and quality by probing the D-connector pins or by interconnecting two consoles with SYS-LINK fitted. Test the PFL/AFL system for correct DC buss switching. The SYS-LINK circuit diagram and technical details are included for reference.

The SYS-LINK Applications Note AP2645 is included separately with these fitting instructions. Provide this note to the user as applicable.

Please refer any queries to your Allen & Heath appointed service agent.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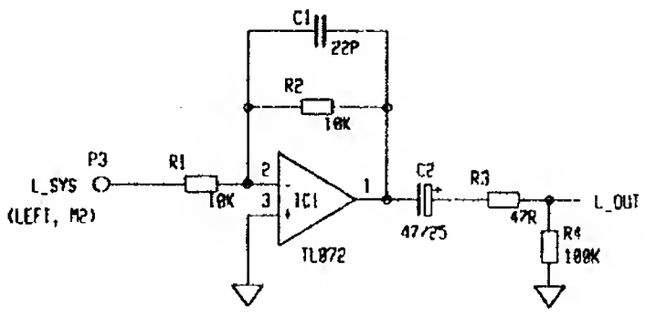
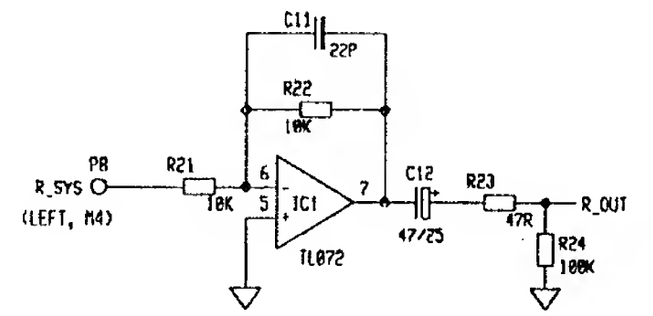
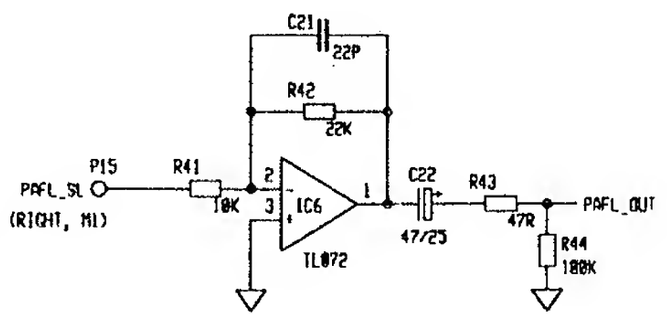
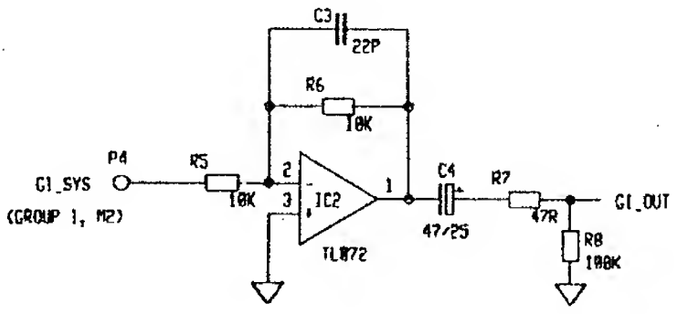
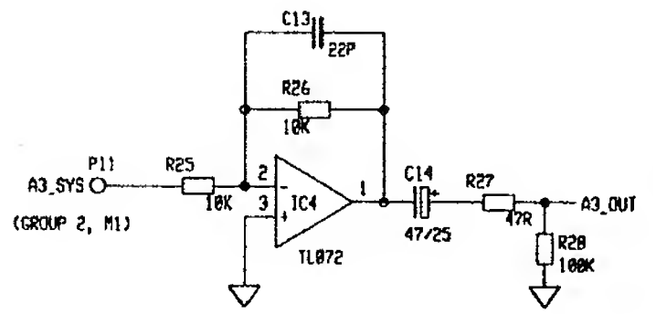
PCB AG2529
ISS 2
LCD SYS-LINK

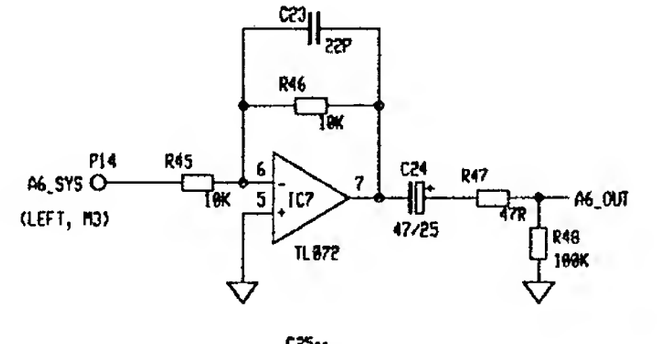


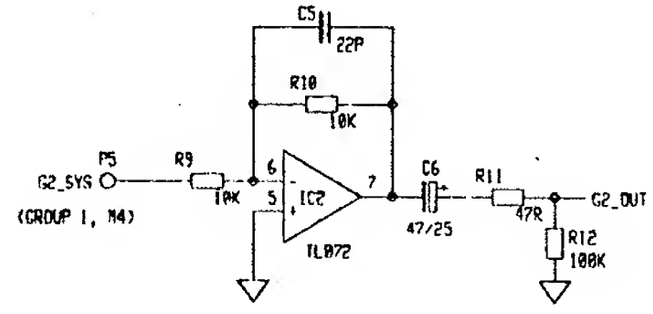


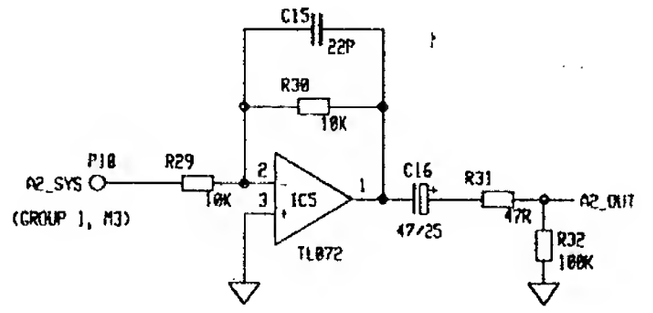


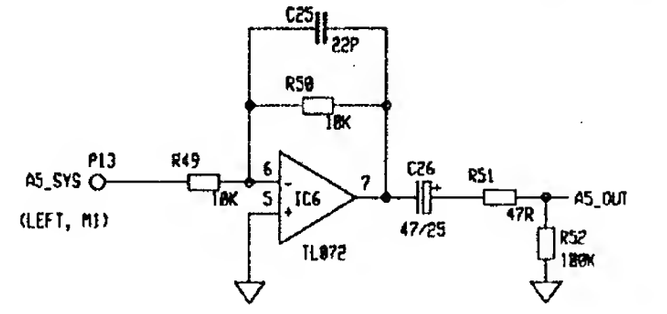


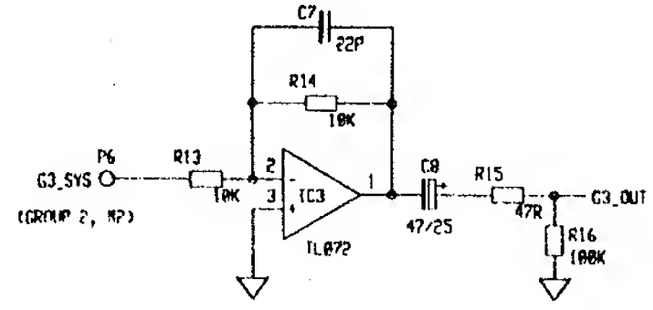


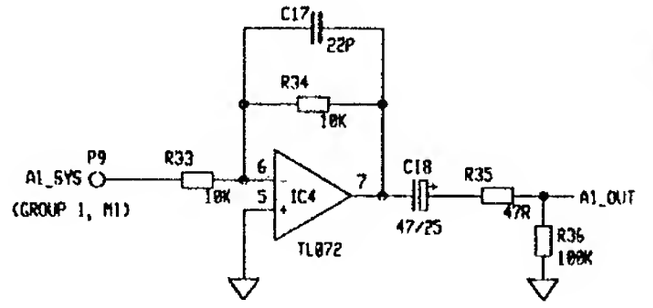


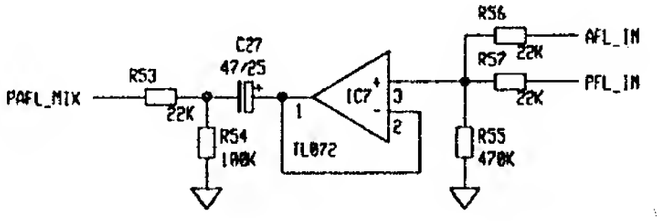


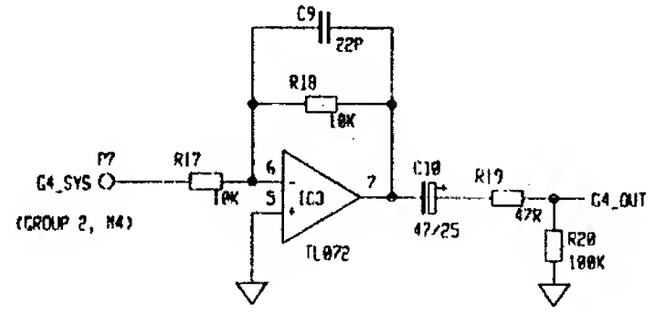


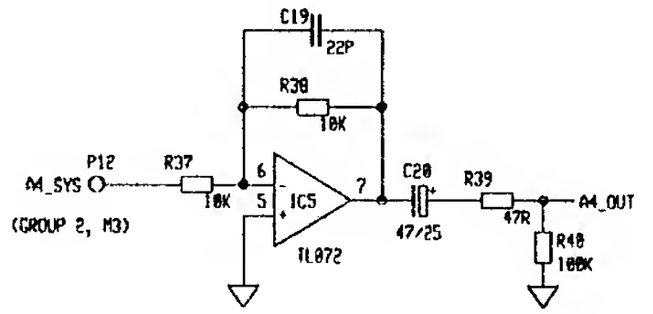






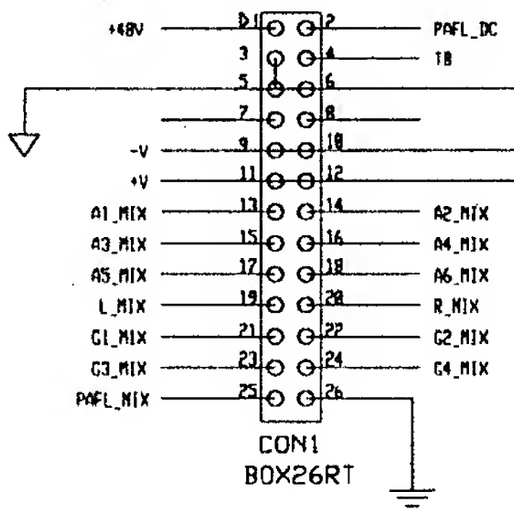




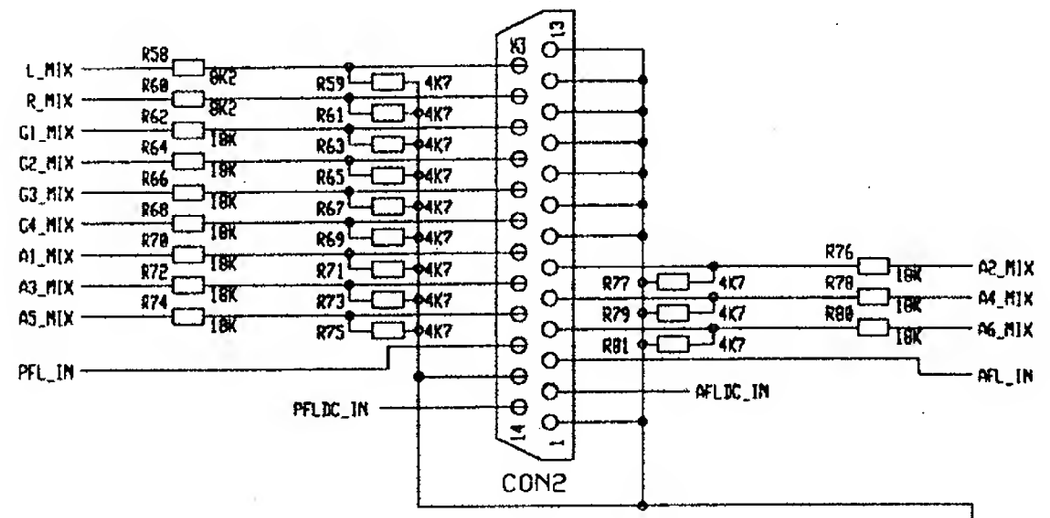


IDC BUS

26 WAY MAIN RIBBON



SYS_LINK IN



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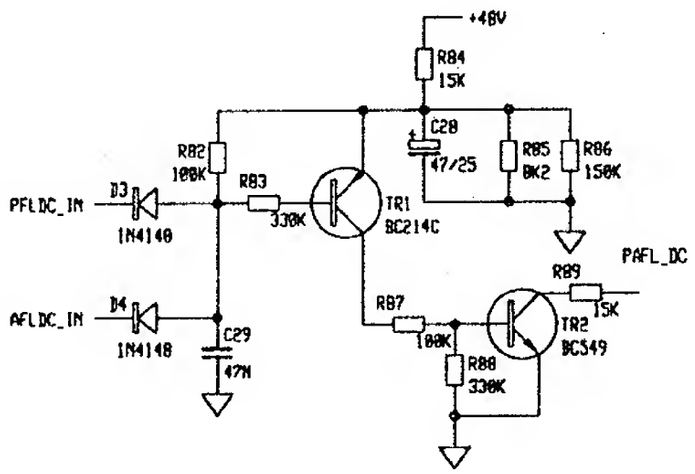
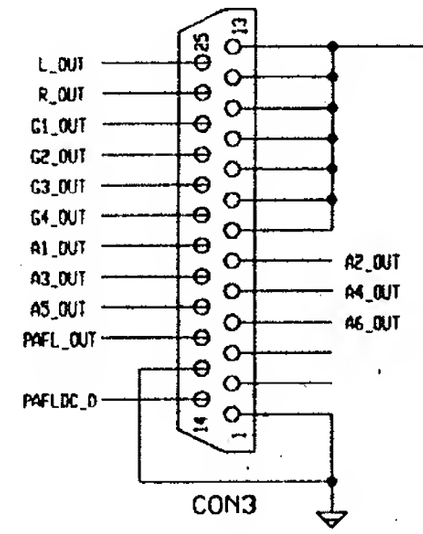
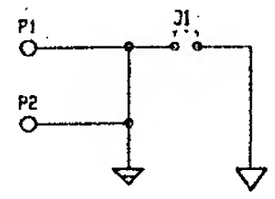
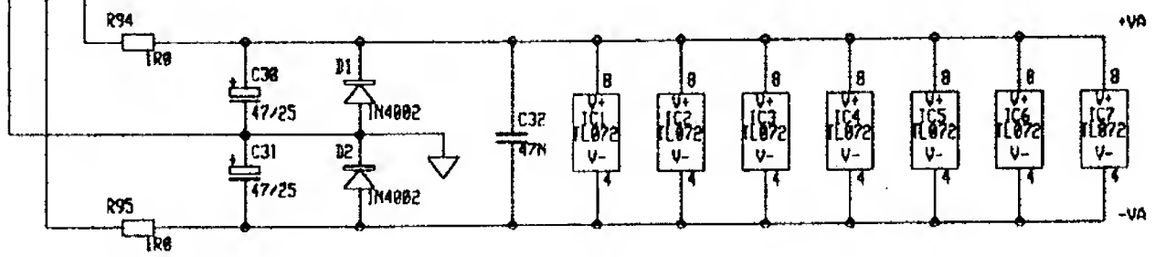








ISS.	REVISION	BY	DATE
A	ORIGIN	AAT	13-03-96
1	VALUE CHANGES	AAT	10-06-96

NOTES

1. RESISTORS MARKED * ARE 1%
   ALL OTHERS ARE 5% 1/4W UNLESS OTHERWISE MARKED
2. ELECTROLYTIC CAPACITORS ARE µF/VOLTS

UNIT TITLE: L2D

DRAWING TITLE: SYS-LINK PCB

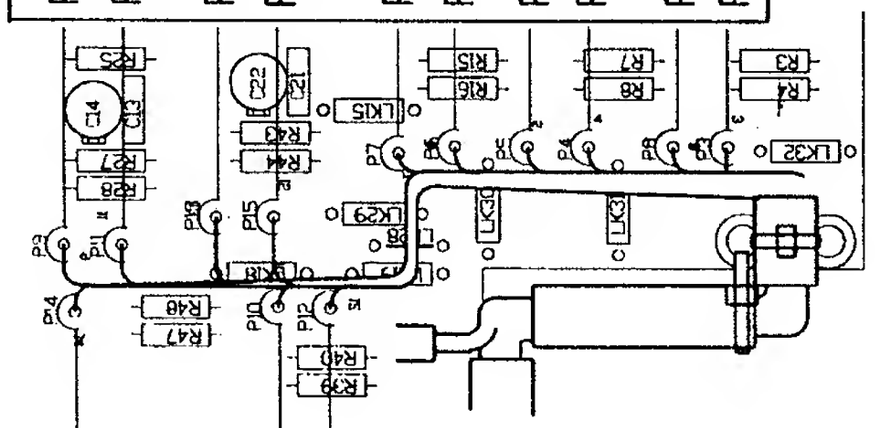
PCB TYPE AG2579

MANUFACTURED IN ENGLAND BY

ALLEN & HEATH

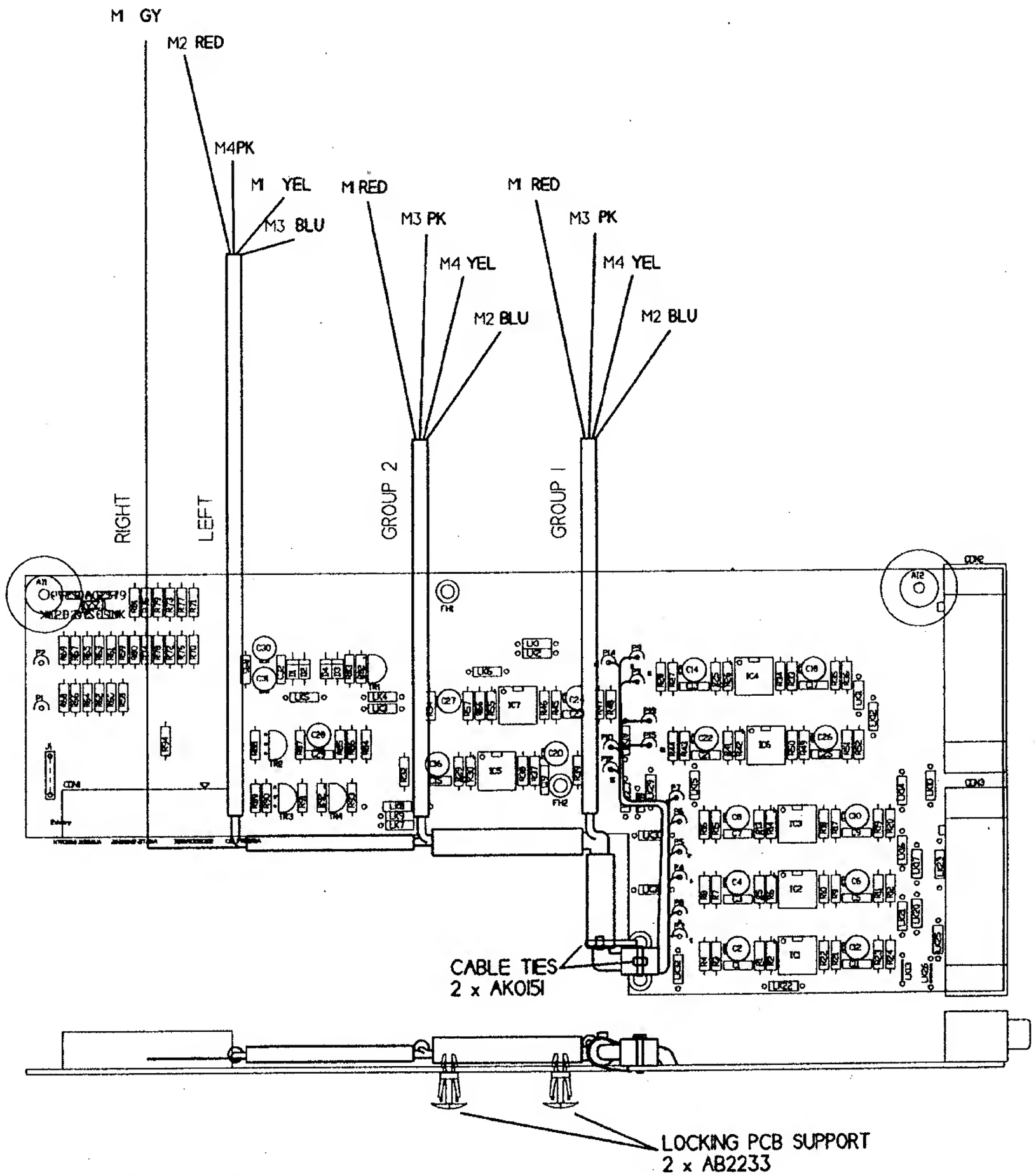
DRAWING No. C2579 ISSUE 1 A2

SYS-LINK PCB PIN No	COLOUR	SIGNAL	CONSOLE PCB-PIN No
P9	RED	AI	GI-MI
PII	RED	A3	G2-MI
PI3	YEL	A5	L-MI
PI5	GY	PAFL	R-MI
P7	YEL	G4	G2-M4
P6	BLU	G3	G2-M2
P5	YEL	G2	GI-M4
P4	BLU	GI	GI-M2
P8	PK	R	L-M4
P3	RED	L	L-M2



SYS-LINK PCB PIN No	COLOUR	SIGNAL	CONSOLE PCB-PIN No
PI4	BLU	A6	L-M3
PIO	PK	A2	GI-M3
PI2	PK	A4	G2-M3

G - GROUP PCB
L - LEFT PCB
R - RIGHT PCB



ALL WIRE IS EQUIPMENT WIRE PVC 7/0.2
MAKE TO APPROVED SHOP MASTER

ISSUE	REVISION	BY	DATE
1	ORIGIN	AAT	23-04-96

STANDARD NOTES
ALL DIMENSIONS IN mm
DO NOT SCALE DRAWING
THIRD ANGLE PROJECTION

NOTES :-

1. PCB AND WIRING HARNESS ARE TO BE SOLDERED TOGETHER AND FIXINGS FITTED BEFORE PACKING OR INHOUSE INSTALLATION.
2. ENSURE WIRES ARE SOLDERED TO THE CORRECT PINS ON PCB
WIRE NUMBER ON FREE END OF WIRE CORRESPONDS TO THE 'P' NUMBER ON THE PCB

DRAWING TITLE
L2D
PCB/WFM ASSY SYS-LINK
STOCK CODE
002-182

ALLEN & HEATH
KERNICK INDUSTRIAL ESTATE.
PENRYN. CORNWALL TR10 9LU
TEL. 01326 372070
FAX 01326 377097

DRAWING No M002-182 Sheet ISSUE 1 A2